I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail in an envelope addressed to : Commissioner for Patents, Alexandria, VA 22313-1450 on Label No.: EU702258635US

(Date of Deposit)

Aun wing, Maco
Karen Cing-Mars (Signature)

7/18/03

(Date)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| In Re Application of  | <b>:</b> | July 18, 2003  |
|---|----------|--|
| Chen et al.   | :        |  |
| Serial No.  | :        | Examiner:  |
| Filed: Herewith   | _:       | IBM Corporation<br>Dept. 18G/Bldg. 300-482                 |
| Title: IMPROVED VERTICAL MOSFET WITH DUAL WORK FUNCTION MATERIALS | :        | 2070 Route 52<br>Hopewell Junction,<br>New York 12533-6531 |

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under

37 C.F.R. § 1.56 and in accordance with the practice under

37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to
the documents listed on the enclosed Form PTO-1449. Copies of the
listed documents are also enclosed.

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

Applicants' undersigned attorney may be reached by telephone

at (845) 894-2481. All correspondence should continue to be directed to the below listed address.

Respectfully submitted,

H. Daniel Schnurmann

Patent Agent

Registration No.35,791

INTERNATIONAL BUSINESS MACHINES CORPORATION Intellectual Property Law Department B/300-482 2070 Route 52 Hopewell Junction, New York 12533 Facsimile: (845) 892-6363

HDS/kcm

## INFORMATION DISCLOSURE CITATION

| Docket Number (Optional) FIS920030102US1 | Application Number |     |
|--|--------------------|-----|
| Applicant(s) Chen et al.                 |                    |     |
| Filing Date                              | Group Art Unit     | • • |

| (Use several sheets if necessary) |     |   |  | Chen et al.   | Chen et al.                           |                     |                    |   |  |  |
|-----------------------------------|-----|---|--|---|---------------------------------------|---------------------|--------------------|---|--|--|
| •                                 |     |   | Filing Date                                    | G   | Group Art Unit                        |                     |                    |   |  |  |
|                                   |     |   | , (  | J.S. PATENT DOCUMENTS   | •                                     |                     |                    |   |  |  |
| EXAMINER<br>INITIAL               | REF | DOCUMENT NUMBER                                     | DATE   | NAME  | CLASS                                 | SUBCLASS            | FILING<br>IF APPRO |   |  |  |
|                                   |     |   |  |   |                                       |                     | IF AFFRO           | JERIATE                                 |  |  |
|                                   |     |   |  |   |                                       |                     |                    |   |  |  |
| -                                 |     |   |  |   |                                       |                     |                    |   |  |  |
|                                   |     |   |  |   |                                       |                     |                    | ······································  |  |  |
|                                   | -   | · · · · · · · · · · · · · · · · · · ·               |  |   |                                       |                     |                    |   |  |  |
|                                   |     |   |  |   |                                       |                     |                    |   |  |  |
|                                   |     |   |  | <u> </u>  |                                       |                     |                    |   |  |  |
|                                   |     |   |  |   |                                       |                     |                    |   |  |  |
|                                   |     |   |  |   |                                       |                     |                    |   |  |  |
|                                   |     |   |  |   |                                       |                     |                    |   |  |  |
|                                   |     |   |  | -   |                                       |                     |                    |   |  |  |
|                                   |     |   |  |   |                                       |                     |                    | *************************************** |  |  |
|                                   |     | <del></del>   | <u>                                       </u> | OREIGN PATENT DOCUMENT  | `S                                    |                     | <u> </u>           |   |  |  |
|                                   | REF | DOCUMENT NUMBER                                     | DATE   | COUNTRY CLASS SUBCLASS Tr   |                                       | Trans               | nslation           |   |  |  |
|                                   |     |   |  |   |                                       |                     | YES                | NO                                      |  |  |
|                                   |     |   |  |   |                                       |                     |                    |   |  |  |
|                                   |     |   |  |   |                                       |                     |                    |   |  |  |
|                                   |     |   |  |   |                                       |                     |                    |   |  |  |
|                                   |     |   |  |   |                                       |                     |                    |   |  |  |
|                                   |     |   |  |   |                                       |                     |                    | :                                       |  |  |
|                                   |     |   |  |   | ing Author, Title, D                  |                     | -                  |   |  |  |
|                                   |     | H. Akatsu et al., "A higi<br>IEEE 2002 Symposium    | hly manufacturable<br>on VLSI Technolog        | 110nm DRAM technology wit<br>y Digest of Technical Papers         | h 8F2 vertical tra                    | nsistor cell for    | 1Gb and I          | oeyond",                                |  |  |
|                                   |     | K. McStay et al., "Verti<br>Technology Digest of Te | ical pass transistor (<br>echnical Papers      | design for sub-100nm DRAM (                                       | echnologies", IE                      | EE 2002 Symp        | osium on \         | VLSI                                    |  |  |
|                                   |     | J. A. Mandelman et al.,<br>IBM Journal of Research  | "Challenges and fu<br>ch and Developmen        | ture directions for the scaling<br>t, Vol. 46, No. 2/3, March/May | of dynamic rando<br>2002, pp. 187 - 2 | om-access men<br>08 | nory (DRA          | M)",                                    |  |  |
| XAMINE                            | R   |   |  | DATE CONSIDERED   |                                       |                     |                    |   |  |  |
|                                   |     |   |  |   |                                       |                     |                    |   |  |  |

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.